

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 71-82

PRESCRIBING WASTE DISCHARGE REQUIREMENTS
FOR THE
PACIFIC GAS & ELECTRIC COMPANY
FOR THE CONSTRUCTION OF A SPRAY CANAL COOLING SYSTEM
NEAR NEW YORK POINT, CONTRA COSTA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, finds:

1. Pacific Gas and Electric Company, called the discharger below, filed a Report on Waste Discharge dated September 30, 1971 with the Regional Water Quality Control Board. The waste will consist of 525,000 cubic yards of peat material (Class II wastes) and supernatant liquid resulting from the hydraulic dredging of a spray canal cooling system for the proposed Unit 7 plant addition. The canal will consist of two parallel segments; 6,450 feet long and 8 feet deep. The waste will be conveyed approximately 3,000 feet by pipeline to a 120 acre disposal site on company property adjacent to the Sacramento Northern Railroad and Willow Pass Road. The site will contain a series of diked disposal ponds. The supernatant liquid will be recycled back to the canal dredger through an interceptor ditch and a portion of willow creek, after the creek has been rerouted. The dredger has a maximum discharge rate of 20,000 gpm and an anticipated operation of 20 hours a day. The resulting recirculated flow will be 24 mgd. There will be no discharge of waste to the Sacramento River during dredging.

The supernatant liquid remaining in the canal plus 20,000 gpm of make up water is planned to be used as recirculating condenser cooling water for Unit 7; 13,000 gpm of which will be discharged through the existing outfall "A" for Units 1-6 to maintain an acceptable Total Dissolved Solids in the canal water. Requirements for outfall "A" are contained in Resolution No. 68-34.

2. The diked disposal ponds, the supernatant return channels and the dredged canal are identified herein as land disposal site "L-2".
3. This Regional Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for this plant.
4. This Regional Board in a public meeting heard and considered all comments pertaining to these discharges.
5. The beneficial uses of the Sacramento River and contiguous water bodies are:

Seasonal source of domestic water supply at Antioch and at Mallard Slough.

Industrial cooling and process water supply year-round.

Swimming, water-skiing, wading, pleasure boating, marinas, fishing, and hunting.

Fish, shellfish, and wildlife propagation and sustenance, and waterfowl and migratory birds habitat and resting.

Navigation channels and port facilities.

Esthetic enjoyment.

IT IS HEREBY ORDERED, the discharger shall comply with the following:

A. Waste Discharge Requirements - During Dredging

1. The dredging and disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. Waste material shall be confined to land disposal site "L-2" at all times and shall not be placed in any position where it can be carried from the disposal site and discharged into waters of the State.
3. Land disposal site "L-2" shall have facilities adequate to divert surface runoff from adjacent areas, to protect the boundaries of the site from erosion, to prevent conditions that would cause drainage or seepage from the site, and to protect the site from flooding by tidal or storm water. Adequate protection is defined as protection from at least a 100-year storm and from the highest tidal stage that may occur.
4. The discharge of waste, acceptable only at Class I disposal sites, into land disposal site "L-2" is prohibited.
5. The discharge of waste shall not cause surface waters of the State to exceed the following limits of quality at any place:

Dissolved Oxygen	5.0 mg/l, minimum	
	Annual Median 80% saturation	
Dissolved Sulfide	0.1 mg/l, maximum	
pH	7.0 minimum	8.5 maximum

B. Waste Discharge Requirements - After completion of dredging:

1. All of the requirements listed in "A" above with the following exception:
 - a. Approximately 13,000 gpm of canal water may be discharged through outfall "A" in compliance with Resolution No. 68-34.

C. Provisions

1. This Order includes items numbered 1 and 6 of the attached "Reporting

Requirements" dated August 28, 1970.

2. This Order includes items numbered 1, 2, 3, 4, 5, and 6 of the attached "Notifications" dated January 6, 1970.
3. Prior to discharging canal water through outfall "A", data shall be submitted to the Regional Board showing that the requirements of Resolution No. 68-34 shall be complied with.
4. Resolution No. 70-51 is hereby rescinded.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on November 23, 1971.

Executive Officer